

ABSTRACT OF THE DISCLOSURE

An engine exhaust emission control device determines a differential pressure across a diesel particulate filter (DPF) to enable regeneration of the DPF at optimal timing. An ECU estimates the temperature of a differential pressure sensor provided for the DPF from the output of an intake air temperature sensor when the engine is not running, and determines an offset correction factor for correcting the sensor's offset error. The factor is set using the sensor output at this time as sensor's offset error, and stored in a memory. When detecting the differential pressure across the DPF, the temperature of the sensor at this time is estimated, and an offset correction factor that corresponds to this estimated temperature is selected. The sensor outputs are adjusted with this offset correction factor.